

Type A - Auto Equalizers - Controllers & Accessories

REL.ACC Controllers - An Overview

Relcross heavy duty, surface mounted controllers contain the requisite number of electrically controlled pneumatic circuits to suit the system to be controlled. For example, a two door system (i.e. two single doors or two pairs of doors) will contain two separately switched valves - regulating air flow to the doors.

Air filtration, pneumatic regulation and system timing is performed by the controller. Each pneumatic circuit can be adjusted for a hold open time, normally up to 30 seconds although this can be increased at order placement if required.

Pneumatic connections use standard push-in fittings and tubing leading from the compressor to the controller to the **Auto Equalizer** (see below). A package of push-in tee, Y and in-line connectors can be supplied with each controller to simplify installations. Consult Relcross for details.



Locate the **REL.ACC** controllers accordingly to minimize the slight exhaust noise when doors close. Additional air line can be utilized to direct the exhaust away from the controller if necessary.

REL.ACC1 controllers accommodate one door or one pair of doors.

REL.ACC2 controllers accommodate two doors or two pairs of doors.

REL.ACC3 controllers accommodate three doors or three pairs of doors.

All **REL.ACC1**, **REL.ACC2** & **REL.ACC3** controllers incorporate 12Vdc 2 Amp power supplies and can power miscellaneous access control accessories used in **Auto Equalizer** systems.

Standard Features & Benefits

- **Continuously rated** – The output current is continuously drawn from the power supply under specified conditions
- **Voltage regulated to correct output for battery charging** – All power supplies will maintain an output voltage to within specified limits under varying conditions of input line and output load
- **Fire relay standard on all power supplies** – Electrically locked doors on escape routes will 'fail safe' in emergency situations
- **Output is current regulated** – If overloaded, output shuts down until cleared
- **Fused** – Protects batteries (if fitted) from overload
- **Metal enclosure with 20mm conduit knockouts** – For ease of installation

Custom built controllers can be designed to accommodate multiple door systems. There is no restriction on the number of doors within an **Auto Equalizer** system although it should be borne in mind that the compressor capacity must be chosen carefully to suit the necessary number of doors and expected traffic levels.

Auto Equalizers - Air flow requirements

Relcross compressors are capable of providing pressures up to 120 psi.

Relcross controllers operate at between 80 psi minimum to 100 psi maximum.

Regulated air output, up to 80 psi, is required for **Auto Equalizers**.

Auto Equalizers require approximately 14 litres per minute airflow in heavy traffic situations (see also page 12).

REL.PNT-1 Pneumatic Power Transfer

Available for **REL.4840** series (door mounted) **Auto Equalizers**.



Important Note - Careful consideration should be given to the overall opening arc of the door and the offset of the pivot point. This device is not suitable for use with swing clear hinges or centre-hung pivots. If in doubt, please consult the sales office.

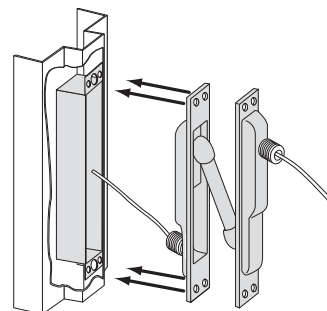
Correct Specification

REL.PNT-1 – Accommodates 6mm o/s diameter air line.

Housing – 229mm x 32mm x 38mm.

Standard Finishes -

SP28 – Sprayed Silver.
SP313 – Sprayed Dark Bronze.



REL.PUN.6XI.SI.50M Pneumatic Air Line

Relcross supplies highly flexible plastic tubing with all **Auto Equalizer** installations.

The compressor and controller will be provided with the necessary compatible connections to suit this air line.

Outside Diameter - 6mm.

Inside Diameter - 4mm.

Colour - Silver.

Length - 50 Metre Roll.

